

Serial Number: 097092401

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
-
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
-
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
-
- ☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 1
-
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
-
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
-
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:
-
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
-
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Sequence 17 - altered amino acid nos.
-

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/692,401
 DATE: 11/02/2000
 TIME: 13:10:00

Input Set : A:\ES.txt
 Output Set: N:\CRF3\11022000\I692401.raw

**Does Not Comply
 Corrected Diskette Needed**

4 <110> APPLICANT: Heidecker, Leonora
 5 van den Eynde, BenoOt
 6 Boon-Falleur, Thierry
 7 Brasseur, Francis
 9 <120> TITLE OF INVENTION: MAGE-A12 ANTIGENIC PEPTIDES AND USES THEREOF
 11 <130> FILE REFERENCE: L0461/7097
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/692,401
 C--> 13 <141> CURRENT FILING DATE: 2000-10-19
 13 <150> PRIOR APPLICATION NUMBER: US 60/160,374
 14 <151> PRIOR FILING DATE: 1999-10-19
 16 <150> PRIOR APPLICATION NUMBER: US 60/179,570
 17 <151> PRIOR FILING DATE: 2000-02-01
 19 <160> NUMBER OF SEQ ID NOS: 56
 21 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORRED SEQUENCES

23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 4523
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <220> FEATURE:
 29 <221> NAME/KEY: CDS
 30 <222> LOCATION: (2960)...(3904)
 32 <400> SEQUENCE: 1
 33 tggcctggga cccgcagcca ttctctacaa ggggtgcagc tgtgcaaatg cacagacgtt 60
 34 acagaaacag agtatctcct gccaatcaact tcatccaaca gccaggagtg aggaagagga 120
 35 cctctttgag tgaggactga ggggtccacc tccccacgt agtgaccaca gaatecagct 180
 36 caqtccctct tgtcagccct gctaaactta ggcaataatg tcaccccgac cgcacccctc 240
 37 ccccagtgcc acttcagggg gactcagagt cagagacttg gtctgagggg agcagacaca 300
 38 atcggcagag gatggcgggc caggctcagc ctggcctcca agtcaggacc ttgaggggatg 360
 39 accaaaagcc cctccccc ccaactcccc caacccccc aggatctaca gcctcatgat 420
 40 ccccgctcct atccctaccc ctacccccc caccatcttc atcgttacct ccacctccat 480
 41 ctggatcccc atccaggaag aatccagttc caccctgct gtgaaccag ggaagtcacg 540
 42 gggccggatg tgacgcact gacttgcgcg ttggagggtc gagaaacagc agattctcgc 600
 43 cctgagcaac ggcctgacgt cggcggaggg aagcaggcgc aggtccgtg aggaggaag 660
 44 gtaagatgcc gagggaggac tgaggcgggc ctaccccag acagagggcc cccaataatc 720
 45 cagcgtgcc tctgtgcca ggcttgacc accctgcagg ggaagacttc tcaggctcag 780
 46 tgcacaccac ctaccccgc cccccccgc cgccttaacc gcagggaact ctggtgtaag 840
 47 agcttttgtg gaccagggca gggctggtta gaagtgtcga gggeccagac tcagccagga 900
 48 atcaagggtc ggaccccag aggggaactga gggtaacccc cccgcacccc caccaccatt 960
 49 cccatcccc aacaccaacc ccaccccat cccccaacac caaacccacc accatcgctc 1020
 50 aaacatcaac ggcaccccca acccccgatt cccatcccca cccatcctgg cagaatcgga 1080
 51 gclttgcccc tgcaatcaac ccaacgaagc tccgggaatg gcggccaagc acgcggatcc 1140
 52 tgacgttcac atctgtggct cagggaaggga agggggtcgg tategtgagt acggcctttg 1200
 53 ggaagcagag gatgggcccc agcccctcct ggaagataat ggagtcaggg gggtcccg 1260

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54 catgccagga caggggccc aagtaccct gtctcaaact gagccacett ttcattcggc 1320
55 cgcgggaatc ctagggatac agaccacatt cagcagggag ttggagccca gccctgcgag 1380
56 gactcaaggq gaaggaaga agqagagact qagggacatt tggagtcca atcagtggca 1440
57 accttgggct gggggatect gggcacagt gcctaagtgy ccccatqctc attgcgactt 1500
58 cagggtgaca gatttgcggg ctgtgtctgt aqgagtggca ctccaggtca gcagagggag 1560
59 gaatcccagg atctgcggga cccaaggtgt gccccttta ttaggactgg ggatacccc 1620
60 ggcacagaaa yaaggaatgc cacagatct qctgtccct tattcttagc tctaaggga 1680
61 cgggatcaga gatagctcca attggcaatc tcatttgtac cacaggcagg aggttgggga 1740
62 accctcaggq agataagggt ttggtgtaaa gaggagctgt ctgctcattt cagggggttg 1800
63 ggggttgagg aagggcagg cccggcagga gtaaaagtga glaaccaca ggaggccatc 1860
64 agaagcctca cctcagatgc aaagggttca gccctggaca acctacctgg qagtgcagg 1920
65 atgtgtctcc tccctacitc tgtttccaga tctcaqggag ttgaggtcct tttcttcaga 1980
66 ggtgtactca ggtcaacaca ggggcccaca tgtagtgcac agacacagtg gtcctaagat 2040
67 ctaccaagca tccaggtgag aagcctgagg taaggattgag ggtacccttg ggcagaacg 2100
68 ctgacagagg gcccacaga aatctgccc gccctgcta tlcctcaga ggcctgggg 2160
69 caaggtctac tgcctgagtc cctccattat cctgggatct ttgatgtcag qgaagggag 2220
70 gccctgtctc gaagggtctg cactcaggtc actagacgga qgttctcagg cctagcagg 2280
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73 cataccttc tgtaccgtat cagggatgtg aattcttgcc atgagatgtt ctttggcca 2460
74 caaaggggcg gtattagcc ctgcaaggag aaaggtgagg gccctgagtg agcacagaag 2520
75 gacctccac cccagtagag tggggacctc acagagcttg gccgacctc ctgacaattt 2580
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77 aatcaggagt tccaagaaca aggcagttag gccctgtctc gaggcagtgt cctgaggtca 2700
78 cagagcagag ggggtgcaga cagtgcacac actgaaggtt tgccttgaat qcacaccaag 2760
79 cgcaccggcc ccagaacaca tggactccag agggcctggc ctacacctcc ctactgtcat 2820
80 tecttcagcc tcagcatgtg ctggccggct gtacctgag qcgccctctc actlgttct 2880
81 tcaagttctg aggagacagg ccccgagca gcaactagct ctgcccacac tctacctgc 2940
82 tgcctgacc agagtcatc atg cca ctt gag cag agg agt cag cac tgc aag 2992
83 Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys
84 1 5 10
86 cct qag qaa ggc ctt qag gcc caa gga qag gcc ctg ggc ttg qtg ggt 3040
87 Pro Glu Glu Gly Leu Glu Ala Gln Gly Glu Ala Leu Gly Leu Val Gly
88 15 20 25
90 gcg cag gct cct gct act gag gag cag gag act gcc tcc tcc tct 3088
91 Ala Gln Ala Pro Ala Thr Glu Glu Gln Glu Thr Ala Ser Ser Ser Ser
92 30 35 40
94 act cta gtg gaa gtc acc ctg cgg gag gtg cct gct gcc gag tca cca 3136
95 Thr Leu Val Glu Val Thr Leu Arg Glu Val Pro Ala Ala Glu Ser Pro
96 45 50 55
98 agt cct ccc cac agt cct cag gga gcc tcc acc ctg ccc act acc atc 3184
99 Ser Pro Pro His Ser Pro Gln Gly Ala Ser Thr Leu Pro Thr Thr Ile
100 60 65 70 75
102 aac lat act ctg tgg agt caa tcc gat gag ggc tcc agc aac gaa gaa 3232
103 Asn Tyr Thr Leu Trp Ser Gln Ser Asp Glu Gly Ser Ser Asn Glu Glu
104 80 85 90
106 cag gaa ggg cca agc acc ttt cct gac ctg gag acg agc ttc caa gta 3280
107 Gln Glu Gly Pro Ser Thr Phe Pro Asp Leu Glu Thr Ser Phe Gln Val
108 95 100 105

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110 gca ctc agt agg aag atg gct gag ttg gtt cat ttt ctg ctc ctc aag 3328
111 Ala Leu Ser Arg Lys Met Ala Glu Leu Val His Phe Leu Leu Leu Lys
112      110      115      120
114 tat cga gcc agg gag cca ttc aca aag gca gaa atg ctg ggg agt qtc 3376
115 Tyr Arg Ala Arg Glu Pro Phe Thr Lys Ala Glu Met Leu Gly Ser Val
116      125      130      135
118 atc aga aat ttc caa gac ttc ttt cct gtg atc ttc agc aaa gcc tcc 3424
119 ile Arg Asn Phe Gln Asp Phe Phe Pro Val ile Phe Ser Lys Ala Ser
120      140      145      150      155
122 gag tac ttg cag ctg gtc ttt ggc atc gag gtg gaa gtg gtc cgc 3472
123 Glu Tyr Leu Gln Leu Val Phe Gly ile Glu Val Val Glu Val Val Arg
124      160      165      170
126 atc ggc cac ttg tac atc ctt gtc acc tgc ctg ggc ctc tcc tac gct 3520
127 ile Gly His Leu Tyr ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Ala
128      175      180      185
130 ggc ctg ctg ggc gac aat cag atc gtg ccc aag aca ggc ctc ctg ata 3568
131 Gly Leu Leu Gly Asp Asn Gln ile Val Pro Lys Thr Gly Leu Leu ile
132      190      195      200
134 atc gtc ctg gcc ata atc gca aaa gag ggc gac tyt gcc cct gag gag 3616
135 ile Val Leu Ala ile ile Ala Lys Glu Gly Asp Cys Ala Pro Glu Glu
136      205      210      215
138 aaa atc tgg gag gag ctg agt gtg ttg gag gca tct gat ggg agg gag 3664
139 Lys ile Trp Glu Glu Leu Ser Val Leu Glu Ala Ser Asp Gly Arg Glu
140      220      225      230      235
142 gac agt gtc ttt gcg cat ccc aag aag ctg ctc acc caa gat ttg gtg 3712
143 Asp Ser Val Phe Ala His Pro Arg Lys Leu Leu Thr Gln Asp Leu Val
144      240      245      250
146 cag gaa aac tac ctg gag tac cgg cag gtc ccc ggc agt gat cct gca 3760
147 Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala
148      255      260      265
150 tgc tac gag ttc ctg tgg ggt cca agg gcc ctc gtt gaa acc agc tat 3808
151 Cys Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr
152      270      275      280
154 gtg aaa gtc ctg cac cat ttg cta aag atc agt gga ggg cct cac att 3856
155 Val Lys Val Leu His His Leu Leu Lys ile Ser Gly Gly Pro His ile
156      285      290      295
158 ccc tac cca ccc ctg cat gaa tgg gct ttt aga gag ggg gaa gag tga 3904
159 Pro Tyr Pro Pro Leu His Glu Trp Ala Phe Arg Glu Gly Glu Glu *
160      300      305      310
162 gtctgagcac gagttgcaga cagggccagt gggagggaat ctgggccagt gcacctcca 3964
163 aagccctatc cattagtttc cactgcctcg tctgacatga ggccattctt tcaactcttg 4024
164 aagagagcag tcaagtattgt tagtagtgag tttctgttct attggatgac tttagattt 4084
165 atctttgttt cctgttgaa ttgttcaaat gtctctttta acggatggtt gaatgaactt 4144
166 cagcatccaa gtttatgaat gacagtagtg acacatagtg ctgtttatat agittaggag 4204
167 taagagtggtt gttttttatt cagatttggg aaatccattc cattttgtga attgtgacaa 4264
168 ataacagcaq tggaaaaagt atgtgcttag aattgtgaaa gaattagcag taaaatacat 4324
169 gagataaaga cctcaagaag ttaaaagata ctttaattctt gccttatacc tcaacttcatt 4384
170 ctgtaaattt gaaaaaaaag cgtggataacc tggatatact tggcttcttt gagaatttaa 4444
171 gagaalttaa atctgaataa ataattcttc ctgttactg gctcatttat ttccattcca 4504

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E--> 172 ctcagcatct gctctgtgg
345 <10> SEQ ID NO: 17
346 <211> LENGTH: 9
347 <212> TYPE: PRT
348 <213> ORGANISM: Homo sapiens
350 <400> SEQUENCE: 17
351 Val Leu Pro Asp Val Phe Ile Arg Cys
E--> 352 1

① 4523

6-5

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/692,401 DATE: 11/02/2000
TIME: 13:10:01

Input Set : A:\ES.txt
Output Set: N:\CRF3\11022000\I692401.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:172 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:4523 SEQ:1
L:352 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17